

Appln. No. 09/724,200

Response dated June 2, 2003

Reply to Final Office Action of March 12, 2003

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

None of the claims have been amended herein. All pending claims are listed below for the Examiner's convenience.

2. (Previously Amended) A touch control apparatus comprising:
 - a keyboard device which generates touch data indicative of strength of keying power;
 - a touch curve memory which stores a touch curve indicative of a correspondence relation of velocity and touch data;
 - a corrector which corrects velocity values of said touch curve stored in said touch curve memory based on said touch data generated by said keyboard device to generate a new touch curve; and
 - a mode switch which switches an operation mode of said touch control apparatus to a predetermined operation mode, wherein said corrector comprises:
 - a correction coefficient generator which generates a correction coefficient composed of a ratio of one of said velocity values corresponding to one of said touch data generated by said keyboard device under said predetermined operation mode to a maximum value of said velocity values; and
 - a touch curve generator which multiplies said correction coefficient generated by said correction coefficient generator by said velocity values to generate the new touch curve.

3. (Previously Amended) The touch control apparatus according to claim 2, wherein said correction coefficient generator generates said correction coefficient composed of the ratio of one of said velocity values corresponding to one of said touch data generated by said keyboard device pushed with a fortissimo strength of the keying

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power under said predetermined operation mode to a maximum value of said velocity values.

4. (Previously Amended) The touch control apparatus according to claim 3, further comprising:

a display device which displays the strength of the keying power when a key on said keyboard device is pushed.

6. (Previously Amended) A touch control apparatus comprising:
a keyboard device which generates touch data indicative of strength of keying power;

a correction curve memory which stores a correction curve indicative of correction values to correct a keyboard curve indicative of a correspondence relation of velocity and touch data, said correction values corresponding to said touch data generated by said keyboard device;

a corrector which corrects the correction values stored in said correction curve memory based on said touch data generated by said keyboard device to generate a new correction curve; and

a mode switch which switches an operation mode of said touch control apparatus to a predetermined operation mode,

wherein said corrector, when a correction value corresponding to said touch data generated by said keyboard device under said predetermined operation mode is different from a predetermined standard value, corrects said correction curve stored in said correction curve memory such that said correction value replaces the predetermined standard value.

7. (Previously Amended) The touch control apparatus according to claim 6, wherein said corrector, when said correction value corresponding to said touch data generated by said keyboard device

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pushed with a mezzo forte strength of the keying power under said predetermined operation mode is different from the predetermined standard value, corrects said correction curve stored in said correction curve memory such that said correction value replaces the predetermined standard value.

8. (Original) The touch control apparatus according to claim 7, further comprising:

a display device which displays the strength of the keying power when the key on said keyboard device is pushed.

9. (Previously Amended) The touch control apparatus according to claim 8, wherein said corrector includes:

an average calculator which calculates an average touch data by averaging said touch data generated by said keyboard device; and

a curve corrector which when said correction value corresponding to said touch data generated by said keyboard device is different from the average touch data calculated by said average calculator, corrects said correction curve stored in said correction curve memory such that said correction value is replaced by said average touch data.

10. (Original) The touch control apparatus according to claim 9, further comprising:

a display device which displays the strength of the keying power when the key on said keyboard device is pushed.

12. (Previously Amended) A touch control method comprising:
generating touch data indicative of strength of keying power;

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storing a touch curve indicative of a correspondence relation of velocity and touch data;
correcting velocity values of said touch curve based on said generated touch data to generate a new touch curve; and
switching an operation mode to a predetermined operation mode,

wherein said correcting velocity values comprises:
generating a correction coefficient composed of a ratio of one of said velocity values corresponding to one of said touch data generated in said touch curve generating step under said predetermined operation mode to a maximum value of said velocity values; and
multiplying said correction coefficient generated in said correction coefficient generating step by said velocity values to generate the new touch curve.

13. (Original) The touch control method according to claim 12, wherein said correction coefficient generating step generates said correction coefficient composed of a ratio of one of said velocity values corresponding to one of said touch data generated based on a fortissimo strength of the keying power under said predetermined operation mode to a maximum value of said stored velocity values.

14. (Original) The touch control method according to claim 13, further comprising:
displaying the strength of the keying power when said touch data is generated.

16. (Previously Amended) A touch control method comprising:
generating touch data indicative of strength of keying power;

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storing a correction curve indicative of correction values to correct a keyboard curve indicative of a correspondence relation of velocity and touch data, said correction values corresponding to said touch data generated in said touch data generating step;

correcting said stored correction values based on said generated touch data to generate a new correction curve; and switching an operation mode to a predetermined operation mode,

wherein said correcting said stored correction values, when a correction value corresponding to said touch data generated under said predetermined operation mode is different from a predetermined standard value, corrects said stored correction curve such that said correction value replaces the predetermined standard value.

17. (Previously Amended) The touch control method according to claim 16, wherein said correcting said stored correction values, when said correction value corresponding to said touch data generated based on a mezzo forte strength of the keying power under said predetermined operation mode is different from the predetermined standard value, corrects said stored correction curve such that said correction value replaces the predetermined standard value.

18. (Original) The touch control method according to claim 17, further comprising:
displaying the strength of the keying power when said touch data is generated.

19. (Previously Amended) The touch control method according to claim 18, wherein said correcting said stored correction values comprises:

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calculating an average touch data by averaging said touch data generated in said touch data generating step; and

when said correction value corresponding to said touch data is different from the average touch data calculated in said average touch data calculating step, corrects said stored correction curve such that said correction value is replaced by said average touch data.

20. (Original) The touch control method according to claim 19, further comprising:

displaying the strength of the keying power when touch curve is generated.